



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/CEMENT/2019-20

Date: 17.06.2019

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	:	Cement
Sample Received on	:	15.06.2019
Period of Testing	:	15.06.2019 to 17.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Assistant Executive Engineer
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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/SAND-Gradation/2019-20

17.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Fine Aggregates (Manufactured Sand)
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 15.06.2019
Date of Testing	: 17.06.2019

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.70	90-100	90-100	90-100	95-100
2.36	79.70	60-95	75-100	85-100	95-100
1.18	61.70	30-70	55-90	75-100	90-100
600 Micron	36.10	15-34	35-59	60-79	80-100
300 Micron	17.10	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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17.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 15.06.2019
Date of Testing	: 17.06.2019

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.36	95-100	85-100
20	39.46	30-70	0-20
10	15.22	10-35	0-5
4.75	1.22	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Assistant Executive Engineer

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17.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Coarse Aggregates (20mm)
Technical Reference	: IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	: 15.06.2019
Date of Testing	: 17.06.2019

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.80	95-100	85-100
10	37.00	25-55	0-20
4.75	6.50	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2019-20

17.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	: 8mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 17.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	514	555	13.1	O.K	O.K

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* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	: 10mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 17.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	519	561	13.2	O.K	O.K

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* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	: 12 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 17.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	525	567	13.4	O.K	O.K

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17.06.2019

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* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	: 16 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 17.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	527	569	13.5	O.K	O.K

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17.06.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Samples ID	: 20 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 17.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	20	2.47	532	575	13.7	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/Cube/2019-20

22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₁₅
Compressive Strength as on	: 28 th day
Sample Received on	: 22.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.06.2019	22.07.2019	8.287	370.6	16.47
2	24.06.2019	22.07.2019	8.329	384.9	17.11
3	24.06.2019	22.07.2019	8.405	405.6	18.03

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/Cube/2019-20

29.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Flooring Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 29.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.09.2019	29.09.2019	8.195	486.3	21.61
2	01.09.2019	29.09.2019	8.286	495.6	22.03
3	01.09.2019	29.09.2019	8.320	512.2	22.76

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/Cube/2019-20

30.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: RCC Roof Slab Concrete (First Floor)
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 30.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	02.07.2019	30.07.2019	8.105	486.5	21.62
2	02.07.2019	30.07.2019	8.260	510.2	22.68
3	02.07.2019	30.07.2019	8.350	522.9	23.24

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/Cube/2019-20

31.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of the work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: RCC Roof Slab Concrete (Second Floor)
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 31.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.08.2019	31.08.2019	8.102	499.5	22.20
2	03.08.2019	31.08.2019	8.205	516.4	22.95
3	03.08.2019	31.08.2019	8.320	529.6	23.54

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/CC Solid Block/2019-20

24.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm ²
No. of Blocks Tested	: 08
Sample Received on	: 22.06.2019
Date of Testing	: 24.06.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	34.15	428.1	5.35	Minimum required Compressive Strength of Individual Units 5.00 N/mm ²
2	Block 2	36.62	421.3	5.27	
3	Block 3	35.55	422.6	5.28	
4	Block 4	34.26	428.7	5.36	
5	Block 5	36.62	430.9	5.39	
6	Block 6	35.26	422.5	5.28	
7	Block 7	36.62	438.5	5.48	
8	Block 8	34.12	419.5	5.24	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/CC Solid Block/2019-20

24.06.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm ²
No. of Blocks Tested	: 03
Sample Received on	: 22.06.2019
Date of Testing	: 24.06.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm ³	Density in Kg/m ³	Average Density Kg/m ³
1	400x200X200	36.152	16000.00	2259.50	2213.75
2	400x200X200	34.256	16000.00	2141.00	
3	400x200X200	35.852	16000.00	2240.75	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/CC Solid Block/2019-20

24.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 08
Sample Received on	: 22.06.2019
Date of Testing	: 24.06.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	25.52	325.9	5.43	Minimum required Compressive Strength of Individual Units 5.00 N/mm ² .
2	Block 2	26.62	315.6	5.26	
3	Block 3	24.15	319.5	5.33	
4	Block 4	25.95	328.9	5.48	
5	Block 5	26.15	332.5	5.54	
6	Block 6	24.63	304.8	5.08	
7	Block 7	25.85	329.8	5.50	
8	Block 8	26.15	333.5	5.56	

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/CC Solid Block/2019-20

24.06.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 03
Sample Received on	: 22.06.2019
Date of Testing	: 24.06.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm ³	Density in Kg/m ³	Average Density Kg/m ³
1	400x150X200	24.156	12000.00	2013.00	2110.03
2	400x150X200	25.620	12000.00	2135.00	
3	400x150X200	26.185	12000.00	2182.08	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.08/CSR-986c/SAND-Gradation/2019-20

09.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560092.
* Name of Work	:	Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
*Reference	:	BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
*Sample ID	:	Fine Aggregates (Sand Plastering)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	07.08.2019
Date of Testing	:	09.08.2019

Total Wt. of Aggregates in gms 1000

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	98.80	95-100
2.36	97.00	95-100
1.18	94.80	90-100
600 Micron	90.30	80-100
300 Micron	47.50	20-65
150 Micron	11.90	0-15

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Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/NNS/W.No.08/Tiles/2019-20

17.08.2019

TEST REPORT ON VETRIFIED TILES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Sri. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore - 560092.
* Name of the Work	: Construction of Government school building at Kodigehalli in Ward No.08, BBMP, Bangalore.
* Reference	: BBMP/EE/BTP/WO/211/2018-19 Dated: 10.01.2019
* Sample ID	: Vetrified tiles
Date of Testing	: 17.08.2019

Sl. No.	Type of test	Result as per Test
1	Shape of Tiles	Square
2	Dimensions Of Tiles	600mm X 600mm
3	Thickness	10 mm

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